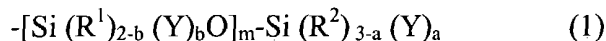


AMENDMENTS TO THE CLAIMS

1. (Original) A curable composition comprising the following two components:

(A1) a vinyl polymer having at least one crosslinking silyl group of the general formula (1) on the average per molecule:



wherein R^1 and R^2 may be the same or different and each represents an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms, an aralkyl group containing 7 to 20 carbon atoms, or a triorganosiloxy group of the formula $(R')_3\text{SiO-}$, where R' represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R' groups may be the same or different, and when two or more R^1 or R^2 groups are present, the plurality of groups may be the same or different; Y represents a hydroxyl group or a hydrolyzable group and, when two or more Y groups are present, they may be the same or different; a represents an integer of 0, 1, 2 or 3; b represents an integer of 0, 1 or 2; m is an integer of 0 to 19; with the condition that the relation of $a + mb \geq 1$ is satisfied and

(B) a photocurable substance.

2. (Original) The curable composition according to Claim 1,

wherein the vinyl polymer (A1) has a molecular weight distribution value of less than 1.8.

3. (Currently amended) The curable composition according to ~~Claim 1 or 2~~ Claim 1,

wherein the vinyl polymer (A1) is a (meth) acrylic polymer.

4. (Original) The curable composition according to Claim 3

wherein the vinyl polymer (A1) is an acrylic polymer.

5. (Currently Amended) The curable composition according to ~~any of Claims 1 to 4~~

Claim 1

wherein the vinyl polymer (A1) has a main chain produced by living radical polymerization technique.

6. (Original) The curable composition according to Claim 5
wherein the vinyl polymer (A1) has a main chain produced by atom transfer radical polymerization technique.

7. (Currently Amended) The curable composition according to ~~any of Claims 1 to 6~~
Claim 1
wherein the vinyl polymer (A1) has at least one crosslinking silyl group of the general formula (1) at the
molecular chain terminus on the average per molecule.

8. (Currently Amended) The curable composition according to ~~any of Claims 1 to 7~~ Claim 1
wherein the vinyl polymer (A1) is obtainable by a process comprising:
(1) a step of polymerizing a vinyl monomer by an atom transfer radical polymerization technique to synthesize a halogen terminated vinyl polymer,
(2) a step of reacting the halogen-terminated vinyl polymer obtained in said-step (1) with an alkenyl group-containing oxyanion to effect substitution for the halogen and thereby synthesize an alkenyl-terminated vinyl polymer, and
(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

9. (Currently Amended) The curable composition according to ~~any of Claims 1 to 7~~
Claim 1
wherein the vinyl polymer (A1) is obtainable by a process comprising
(1) a step of polymerizing a vinyl monomer by a living radical polymerization technique to prepare a vinyl polymer,
(2) a step of reacting the polymer further with a compound having at least two sparingly polymerizable alkenyl groups to synthesize an alkenyl-terminated vinyl polymer, and

(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

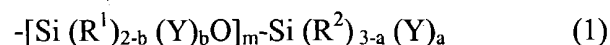
10. (Currently Amended) The curable composition according to ~~any of Claims 1 to 9~~
Claim 1

wherein the photocurable substance (B) is an unsaturated acrylic compound.

11. (Original) A curable composition comprising the following two components:

(A2) a vinyl polymer having at least one crosslinking silyl group of the general formula

(1) on the average per molecule:



wherein R¹ and R² may be the same or different and each represents an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms, an aralkyl group containing 7 to 20 carbon atoms, or a triorganosiloxy group of the formula (R')₃SiO-, where R' represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R' groups may be the same or different, and when two or more R¹ or R² groups are present, the plurality of groups may be the same or different; Y represents a hydroxyl group or a hydrolyzable group and, when two or more Y groups are present, they may be the same or different; a represents an integer of 0, 1, 2 or 3; b represents an integer of 0, 1 or 2; m is an integer of 0 to 19; with the condition that the relation of a + mb ≥ 1 is satisfied and

(C) an air oxidation-curable substance.

12. (Original) The curable composition according to Claim 11

wherein the vinyl polymer (A2) has a molecular weight distribution value of less than 1.8.

13. (Currently Amended) The curable composition according to Claim 11 ~~or 12~~ wherein the vinyl polymer (A2) is a (meth)acrylic polymer.

14. (Original) The curable composition according to Claim 13
wherein the vinyl polymer (A2) is an acrylic polymer.

15. (Currently Amended) The curable composition according to ~~any of Claims 11 to 14~~
Claim 11

wherein the vinyl polymer (A2) has a main chain produced by living radical polymerization technique.

16. (Original) The curable composition according to Claim 15
wherein the vinyl polymer (A2) has a main chain produced by atom transfer radical polymerization technique.

17. (Currently Amended) The curable composition according to ~~any of Claims 11 to 16~~
Claim 11

wherein the vinyl polymer (A2) has at least one crosslinking silyl group of the general formula (1) at the molecular chain terminus on the average per molecule.

18. (Currently Amended) The curable composition according to ~~any of Claims 11 to 17~~
Claim 11

wherein the vinyl polymer (A2) is obtainable by a process comprising:

(1) a step of polymerizing a vinyl monomer by an atom transfer radical polymerization technique to synthesize a halogen-terminated vinyl polymer,

(2) a step of reacting the halogen-terminated vinyl polymer obtained in said step (1) with an alkenyl group-containing oxyanion to effect substitution for the halogen and thereby synthesize an alkenyl-terminated vinyl polymer, and

(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

19. (Currently Amended) The curable composition according to ~~any of Claims 11 to 17~~
Claim 11

wherein the vinyl polymer (A2) is obtainable by a process comprising

(1) a step of polymerizing a vinyl monomer by a living radical polymerization technique to prepare a vinyl polymer,

(2) a step of reacting the polymer further with a compound having at least two sparingly polymerizable alkenyl groups to synthesize an alkenyl-terminated vinyl polymer, and

(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

20. (Currently Amended) The curable composition according to ~~any of Claims 11 to 19~~
Claim 11

wherein the air oxidation-curable substance (C) is tung oil or a liquid diene polymer.

21. (Currently Amended) A curable composition comprising the following two components:

(A3) a vinyl polymer having at least one crosslinking functional group on the average per molecule and

(D) a high molecular plasticizer having a number average molecular weight of 500 or over.

22. (Original) The curable composition according to Claim 21

wherein the vinyl polymer (A3) is a molecular weight distribution value of less than 1.8.

23. (Currently Amended) The curable composition according to Claim 21 ~~or 22~~ wherein the vinyl polymer (A3) is a (meth) acrylic polymer.

24. (Currently Amended) The curable composition according to Claim 21 ~~or 22~~ wherein the vinyl polymer (A3) is an acrylic polymer.

25. (Currently Amended) The curable composition of ~~any of Claims 21 to 24~~ Claim 21

wherein the crosslinking functional group of the vinyl polymer (A3) is a crosslinking silyl group.

26. (Currently Amended) The curable composition according to ~~any of Claims 21 to 24~~
Claim 21

wherein the crosslinking functional group of the vinyl polymer (A3) is an alkenyl group.

27. (Currently Amended) The curable composition according to ~~any of Claims 21 to 24~~
Claim 21

wherein the crosslinking functional group of the vinyl polymer (A3) is a hydroxyl group.

28. (Currently Amended) The curable composition according to ~~any of Claims 21 to 24~~
Claim 21

wherein the crosslinking functional group of the vinyl polymer (A3) is an amino group.

29. (Currently Amended) The curable composition according to ~~any of Claims 21 to 24~~
Claim 21

wherein the crosslinking functional group of the vinyl polymer (A3) has a polymerizable carbon-carbon double bond.

30. (Currently Amended) The curable composition according to ~~any of Claims 21 to 24~~
Claim 21

wherein the crosslinking functional group of the vinyl polymer (A3) is an epoxy group.

31. (Currently Amended) The curable composition according to ~~any of Claims 21 to 30~~
Claim 21

wherein the vinyl polymer (A3) has a main chain produced by living radical polymerization technique.

32. (Original) The curable composition according to Claim 31

wherein the vinyl polymer (A3) has a main chain produced by atom transfer radical polymerization technique.

33. (Original) The curable composition according to Claim 32

wherein the atom transfer radical polymerization technique is carried out by using, as the catalyst, a transition metal complex whose center metal belongs to group 7, 8, 9, 10 or 11 of the periodic table of the elements.

34. (Original) The curable composition according to Claim 33

wherein the transition metal complex is a complex of copper, nickel, ruthenium or iron.

35. (Original) The curable composition according to Claim 34

wherein the transition metal complex is a complex of copper.

36. (Currently Amended) The curable composition according to ~~any of Claims 21 to 35~~
Claim 21

wherein the high molecular plasticizer (D) has a number average molecular weight of 500 to 15000.

37. (Original) The curable composition according to Claim 36

wherein the high molecular plasticizer (D) has a number average molecular weight of 800 to 10000.

38. (Original) The curable composition according to Claim 37

wherein the high molecular plasticier (D) has a number average molecular weight of 1000 to 8000.

39. (Currently Amended) The curable composition according to ~~any of Claims 21 to 38~~
Claim 21 wherein the high molecular plasticizer (D) is a vinyl polymer.

40. (Original) The curable composition according to Claim 39

wherein the high molecular plasticizer (D) has a molecular weight distribution value of less than 1.8.

41. (Currently Amended) The curable composition according to Claim 39 ~~or 40~~ wherein the high molecular plasticizer (D) is a (meth)acrylic polymer.

42. (Currently Amended) The curable composition according to Claim 40 ~~or 41~~ wherein the high molecular plasticizer (D) is an acrylic polymer.

43. (Currently Amended) The curable composition according to ~~any of Claims 40 to 42~~
Claim 40

wherein the high molecular plasticizer (D) is produced by living radical polymerization technique.

44. (Original) The curable composition according to Claim 43

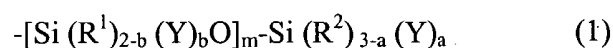
wherein the high molecular plasticizer (D) is produced by atom transfer radical polymerization technique.

45. (Currently Amended) The curable composition according to ~~any of Claims 21 to 44~~
Claim 21

wherein the addition amount of the high molecular plasticizer (D) is 5 to 150 weight parts based on 100 weight parts of the vinyl polymer (A3) having at least one crosslinking functional group.

46. (Original) A curable composition comprising the following two components:

(A4) a vinyl polymer having not less than 1.1 of crosslinking silyl group of the general formula (1) on the average per molecule:



wherein R^1 and R^2 may be the same or different and each represents an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms, an aralkyl group containing 7 to 20 carbon atoms, or a triorganosiloxy group of the formula $(R')_3SiO-$, where R' represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R' groups may be the same or different, and when two or more R^1 or R^2 groups are present, the plurality of groups may be the same or different; Y represents a hydroxyl group or a hydrolyzable group and, when two or more Y groups are present, they may be the same or different; a represents an integer of 0, 1, 2 or 3; b represents an integer of 0, 1 or 2; m is an integer of 0 to 19; with the condition that the relation of $a + mb \geq 1$ is satisfied and

(E) a reactive plasticizer comprising a vinyl polymer having not more than one of crosslinking silyl group of the general formula (1) on the average per molecule.

47. (Original) The curable composition according to Claim 46 wherein the vinyl polymer (A4) has a molecular weight distribution value of less than 1.8.

48. (Currently Amended) The curable composition according to Claim 46 ~~or 47~~ wherein the vinyl polymer (A4) is a (meth) acrylic polymer.

49. (Original) The curable composition according to Claim 48 wherein the vinyl polymer (A4) is an acrylic polymer.

50. (Currently Amended) The curable composition according to ~~any of Claims 46 to 49~~ Claim 46 wherein the vinyl polymer (A4) has a main chain produced by living radical polymerization technique.

51. (Currently Amended) The curable composition according to ~~any of Claims 46 to 51~~ Claim 46 wherein the vinyl polymer (A4) has not less than 1.1 of crosslinking silyl group of the general formula (1) at the molecular chain terminus on the average per molecule.

52. (Currently Amended) The curable composition according to ~~any of Claims 46 to 51~~
Claim 46

wherein the vinyl polymer (A4) has not less than 1.1 of crosslinking silyl group of the general formula (1) at the molecular chain terminus on the average per molecule.

53. (Currently Amended) The curable composition according to ~~any of Claims 46 to 52~~
Claim 46

wherein the vinyl polymer (A4) is obtainable by a process comprising

- (1) a step of polymerizing a vinyl monomer by an atom transfer radical polymerization technique to synthesize a halogen terminated vinyl polymer,
- (2) a step of reacting the halogen-terminated vinyl polymer obtained in said step (1) with an alkenyl group-containing oxyanion to effect substitution for the halogen and thereby synthesize an alkenyl-terminated vinyl polymer, and
- (3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

54. (Currently Amended) The curable composition according to ~~any of Claims 46 to 52~~
Claim 46

wherein the vinyl polymer (A4) is obtainable by a process comprising

- (1) a step of polymerizing a vinyl monomer by a living radical polymerization technique to prepare a vinyl polymer,
- (2) a step of reacting the polymer further with a compound having at least two sparingly polymerizable alkenyl groups to synthesize an alkenyl-terminated vinyl polymer, and
- (3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

55. (Currently Amended) The curable composition according to ~~any of Claims 46 to 54~~
Claim 46

wherein the reactive plasticizer (E) has a molecular weight distribution value of less than 1.8.

56. (Currently Amended) The curable composition according to ~~any of Claims 46 to 55~~
Claim 46

wherein the reactive plasticizer (E) has a number average molecular weight of 500 to 15000.

57. (Currently Amended) The curable composition according to ~~any of Claims 46 to 56~~
wherein the reactive plasticizer (E) is lower in viscosity than the vinyl polymer (A4).

58. (Currently Amended) The curable composition according to ~~any of Claims 46 to 57~~
Claim 46

wherein the reactive plasticizer (E) is a (meth) acrylic polymer.

59. (Original) The curable composition according to Claim 58
wherein the reactive plasticizer (E) is an acrylic polymer.

60. (Currently Amended) The curable composition according to ~~any of Claims 46 to 59~~
Claim 46

wherein the reactive plasticizer (E) has a polymer main chain produced by living radical polymerization technique.

61. (Original) The curable composition according to Claim 60

wherein the reactive plasticizer (E) has a polymer main chain produced by atom transfer radical polymerization technique.

62. (Currently Amended) The curable composition according to ~~any of Claims 46 to 61~~
Claim 46

wherein the reactive plasticizer (E) is obtainable by a process comprising

(1) a step of polymerizing a vinyl monomer by an atom transfer radical polymerization technique to synthesize a vinyl polymer having a highly reactive carbon-halogen bond at only one molecular chain terminus,

(2) a step of reacting the vinyl polymer having a highly reactive carbon-halogen bond at only one molecular chain terminus as obtained in said step (1) with an alkenyl group-containing oxyanion to effect substitution for the halogen and thereby synthesize a vinyl polymer having an alkenyl group at only one molecular chain terminus, and

(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the vinyl polymer having an alkenyl group at only one molecular chain terminus as obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

63. (Currently Amended) The curable composition according to ~~any of Claims 46 to 61~~
Claim 46

wherein the reactive plasticizer (E) is produced by a process comprising

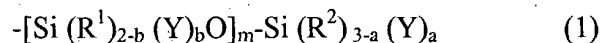
(1) a step of polymerizing a vinyl monomer by a living radical polymerization technique using an initiator having one initiation point to prepare a vinyl polymer,

(2) a step of reacting the polymer further with a compound having at least two sparingly polymerizable alkenyl groups to synthesize an alkenyl-terminated vinyl polymer, and

(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

64. (Original) A curable composition comprising the following two components:

(A5) a vinyl polymer having at least one crosslinking silyl group of the general formula (1) on the average per molecule the main chain of which polymer has been obtained by a living polymerization technique;



wherein R^1 and R^2 may be the same or different and each represents an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms, an aralkyl group containing 7 to 20 carbon atoms, or a triorganosiloxy group of the formula $(R')_3\text{SiO-}$, where R' represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R' groups may be the same or different, and when two or more R^1 or R^2 groups are present, the plurality of groups may be the same or different; Y represents a hydroxyl group or a hydrolyzable group and, when two or more Y groups are present, they may be the same or different; a represents an integer of 0, 1, 2 or 3; b represents an integer of 0, 1 or 2; m is an integer of 0 to 19; with the condition that the relation of $a + mb \geq 1$ is satisfied and

(F) a compound (I) having one silanol group per molecule and/or a compound (II) capable of reacting with moisture to give a compound having one silanol group per molecule.

65. (Original) The curable composition according to Claim 64

wherein the vinyl polymer (A5) has a molecular weight distribution value of less than 1.8.

66. (Currently Amended) The curable composition according to Claim 64 ~~or 65~~

wherein the vinyl polymer (A5) is a (meth) acrylic polymer.

67. (Original) The curable composition according to Claim 66

wherein the vinyl polymer (A5) is an acrylic polymer.

68. (Currently Amended) The curable composition according to ~~any of Claims 64 to 67~~

Claim 64

wherein the vinyl polymer (A5) has a main chain produced by living radical polymerization technique.

69. (Original) The curable composition according to Claim 68

wherein the vinyl polymer (A5) has a main chain produced by atom transfer radical polymerization technique.

70. (Currently Amended) The curable composition according to ~~any of Claims 64 to 69~~

Claim 64

wherein the vinyl polymer (A5) has at least one crosslinking silyl group of the general formula (1) at the molecular chain terminus on the average per molecule.

71. (Currently Amended) The curable composition according to ~~any of Claims 64 to 70~~

Claim 64

wherein the vinyl polymer (A5) is obtainable by a process comprising

(1) a step of polymerizing a vinyl monomer by an atom transfer radical polymerization technique to synthesize a halogenterminated vinyl polymer,

(2) a step of reacting the halogen-terminated vinyl polymer obtained in said step (1) with an alkenyl group-containing oxyanion to effect substitution for the halogen and thereby synthesize an alkenyl-terminated vinyl polymer, and

(3) a step of adding a hydrosilane compound having a crosslinkingsilyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

72. (Currently Amended) The curable composition according to ~~any of Claim 64 to 70~~
Claim 64

wherein the vinyl polymer (A5) is obtainable by a process comprising

(1) a step of polymerizing a vinyl monomer by a living radical polymerization technique to prepare a vinyl polymer,

(2) a step of reacting the polymer further with a compound having at least two sparingly polymerizable alkenyl groups to synthesize an alkenyl-terminated vinyl polymer, and

(3) a step of adding a hydrosilane compound having a crosslinking silyl group represented by the general formula (1) to the terminal alkenyl group of the alkenyl-terminated vinyl polymer obtained in said step (2) to convert the terminal alkenyl group to a substituent containing said crosslinking silyl group.

73. (Currently Amended) The curable composition according to ~~any of Claims 64 to 72~~
Claim 64

wherein the compound (I) having one silanol group per molecule for (F) component is represented by the general formula (48) ;



wherein R^{26} represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R^{26} groups may be the same or different.

74. (Currently Amended) The curable composition according to ~~any of Claims 64 to 72~~
Claim 64

wherein the compound (II) capable of reacting with moisture to give a compound having one silanol group per molecule, which is used as (F) component, is capable of reacting with moisture to give a compound represented by the general formula (48);



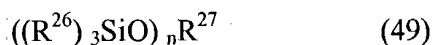
wherein R^{26} represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R^{26} groups may be the same or different.

75. (Original) The curable composition according to Claim 74

wherein the compound (II) capable of reacting with moisture to give a compound having one silanol group per molecule, which is used as (F) component, is $(\text{CH}_3)_3\text{SiNHSi}(\text{CH}_3)_3$.

76. (Original) The curable composition according to Claim 74

wherein the compound (II) capable of reacting with moisture to give a compound having one silanol group per molecule, which is used as (F) component, is represented by the general formula (49);



wherein R^{26} represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the plurality of R^{26} groups may be the same or different; n represents a positive number; R^{27} represents a residual group derived from an active hydrogen-containing compound by removal of part or the whole of active hydrogen.

77. (Currently Amended) The curable composition according to Claim 73, ~~74 or 76~~

wherein, referring to the compound represented by the general formula (48) or (49), at least one R^{26} group is a methyl group.

78. (Currently Amended) The curable composition according to Claim 73 ~~or 74~~ wherein the compound represented by the general formula (48) is trimethylsilanol.

79. (Original) The curable composition according to Claim 76

wherein, referring to the general formula (49), the active hydrogen-containing compound from which R^{27} is derived is a phenol, an acid amide or an alcohol.